Lessons learned about working with Components and Composite Controls

Robin Panneels, Canguru Solutions
February 14, 2020

Last week this happened

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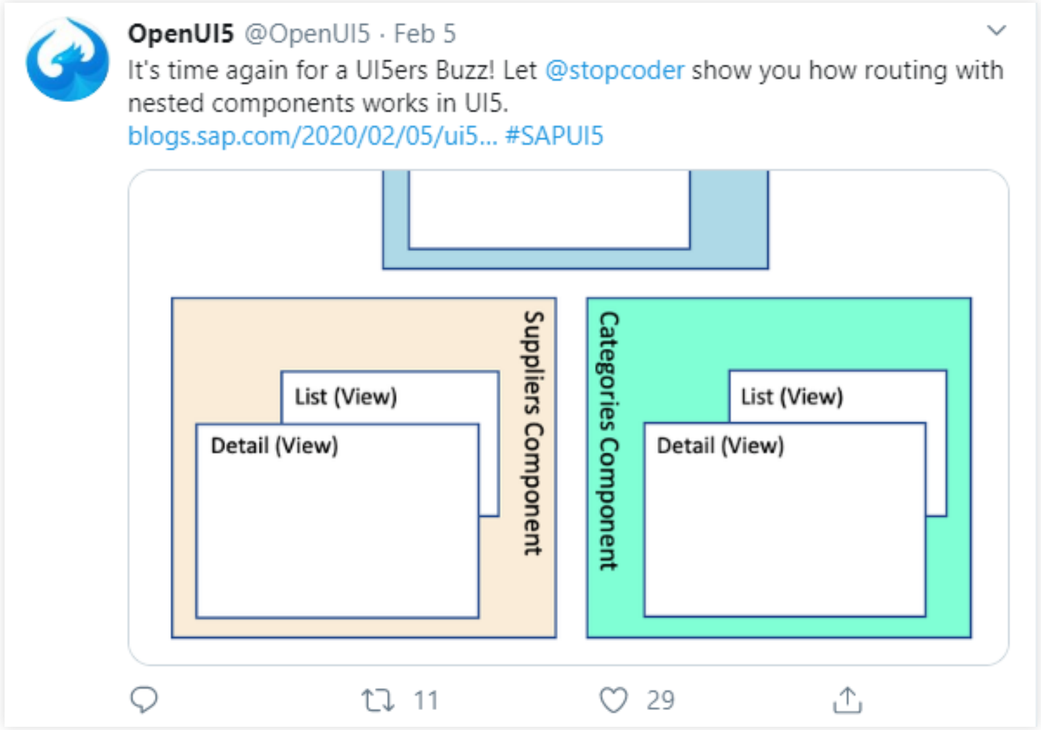

Last week this happened

OpenUI5 @OpenUI5 · Feb 5

It's time again for a UI5ers Buzz! Let @stopcoder show you how routing with nested components works in UI5.
blogs.sap.com/2020/02/05/ui5... #SAPUI5

Tom Van Doorslaer
@TomVanDoo

Replying to @grahamrobbo @MikeEDoyle and 4 others

Checked it out. much better then the situation before. cc @rpanneel still got time to update your slides for UI5Con? @KaouassRachid

2:05 PM · Feb 6, 2020 · Twitter Web App

There’s been a change of plan.

Reusable Components
Deep Dive

Robin Panneels, Canguru Solutions
February 14, 2020

I'm Robin Panneels

Technical Consultant at Canguru Solutions

@rpanneel

Grab this session from GitHub

Who already implemented reusable Components?

What is a Component?

Every UI5 application is a Component!

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Because we always extend:

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sap.ui.core.UIComponent

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UI5 applications can be reused in another application

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In this case we have a rootView

But we can also expose a Control

See metadata of sap.ui.core.UIComponent:

```
...
metadata : {
        "abstract": true,
        rootView : null, // the rootView to open
        publicMethods: [ "render" ],
        aggregations: {
                /**
                 * The root control of the UIComponent.
                 *
                 * The root control should be created inside the function
                 * {@link sap.ui.core.UIComponent#createContent}.
                 */
                "rootControl": {
                        type: "sap.ui.core.Control",
                        multiple: false,
                        visibility: "hidden"
                }
        },
        ...
}
```

Use-cases for reusable Components

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- Search helps/Value Help Dialogs

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- Information Dialog views

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- Lists and Tables

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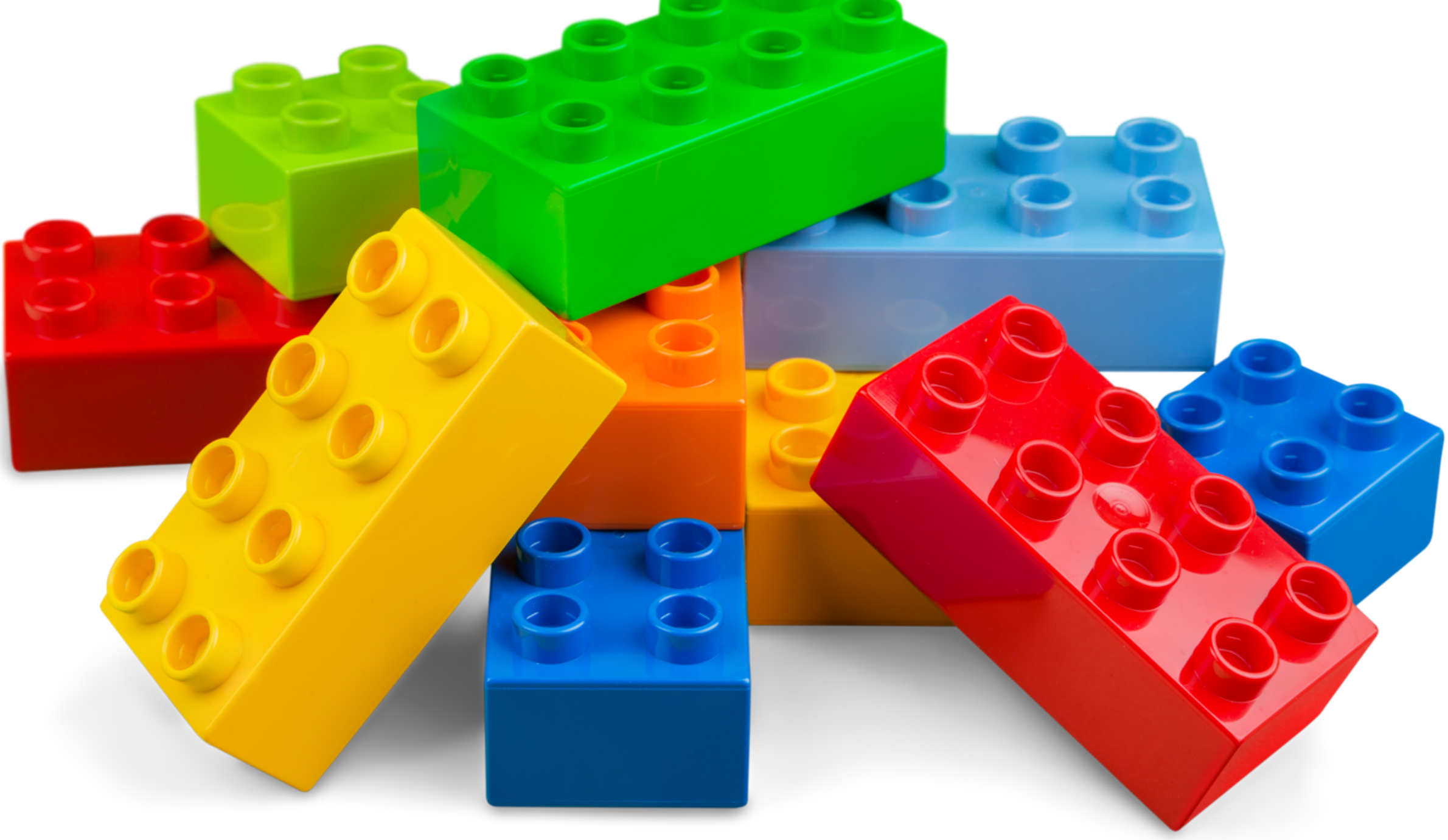
More information can be found on Nabi Zamani's website



Components Vs Controls

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Components can create models and work with Back-ends

Components Vs Controls

Components can create models and work with Back-ends

Controls can't

Reusable Component example: AttachmentManager

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Initial goals:

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- Wrapper for UploadCollection

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Reusable Component example: AttachmentManager

Initial goals:

- Wrapper for UploadCollection
- UploadSet implementation
- Standardize working with attachments and links

You can also go too far with implementing reusable components

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You can propagate the models from the application to the ComponentContainer

So the risk exists that you make a Reusable Component app dependent...

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Routing in Nested Components in 1.60

Routing in Nested Components in 1.60

Tom Van Doorslaer's post

Routing in Nested Components from 1.72

Routing in Nested Components from 1.72

Jiawei Cao's post

GitHub Repositories:

- Component Library (including attachmentManager)
- Routing in Nested Components in UI5 1.60 (Products Component)
- Routing in Nested Components in UI5 1.60 (Suppliers Component)
- Routing in Nested Components from UI5 1.72 (Products Component)
- Routing in Nested Components from UI5 1.72 (Suppliers Component)
- Routing in Nested Components from UI5 1.72 (Nested Component)

Thank you!

Contact information:

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